INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2005/013366

Α.	CLASSIFIC.	ATION OF	SUBJECT	MATTER

H04L14/00 (2006.01), H04J14/02 (2006.01), H04B10/00 (2006.01), H04B10/04 (2006.01), H04B10/06 (2006.01), H04B10/142 (2006.01), H04B10/152 (2006.01)

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

H04J14/00 (2006.01) - H04J14/08 (2006.01), H04B10/00 (2006.01) - H04B10/28 (2006.01)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2005

Kokai Jitsuyo Shinan Koho 1971-2005 Toroku Jitsuyo Shinan Koho 1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
JOIS (JICST FILE), IEEE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
У	JP 3339031 B (Nippon Telegraph And Telephone Corp.), 16 August, 2002 (16.08.02), Full text; all drawings (Family: none)	1-34
Y	JP 7-183870 A (Matsushita Electric Industrial Co., Ltd.), 21 July, 1995 (21.07.95), Par. Nos. [0073], [0074]; Figs. 8, 9 & US 005541757 A1	1-34
Y	JP 11-68670 A (Nippon Telegraph And Telephone Corp.), 09 March, 1999 (09.03.99), Full text; all drawings (Family: none)	1-34

	Further documents are listed in the continuation of Box C.		See patent family annex.		
* "A"	to be of particular relevance earlier application or patent but published on or after the international filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
"E"					
-D.					
Date of the actual completion of the international search 05 October, 2005 (05.10.05)		Date	of mailing of the international search report 25 October, 2005 (25.10.05)		
Name and mailing address of the ISA/ Japanese Patent Office		Autl	norized officer		
Facsimile No.		Tele	phone No.		
Form PCT/ISA/210 (second sheet) (January 2004)					